Docket: CU-4137 PATENT

Amendments To The Specification

Please replace the paragraph in the Specification page 1, lines 10-15 with the following amended paragraph:

The present invention relates to a communication management technique of a narrow area wireless network **such as a personal area network** in a communication environment including a narrow area wireless network **(personal area network)** constructed by a wide area network of a mobile telecommunication carrier and mobile communication terminals.

Please replace the paragraph in the Specification page 1 lines 29-34 through page 2 lines 1-6 with the following amended paragraph:

On the other hand, there is proposed a wireless communication system within a range of communication distance of several tens of meters**, which is called "Personal Area Network",** and there is a movement to load such a short distance wireless communication function into the mobile communication terminal such as the mobile phone. If such the short distance wireless communication function is loaded into the mobile communication terminal, free information communication becomes possible between the mobile communication terminals on which the same wireless communication function is loaded**, freely and without management system,** without passing through the network of the mobile telecommunication carrier.

Docket: CU-4137 PATENT

Please replace the paragraph in the Specification page 2, lines 27-33 with the following amended paragraph:

The present invention has been achieved in order to solve the above problems. It is an object of this invention to provide a communication management system capable of making a mobile telecommunication carrier network and a narrow area wireless communication network **such as a personal area network** compatible with each other in a form of avoiding disadvantage of a mobile telecommunication carrier.

Please replace the paragraph in the Specification page 2, lines 1 through page 3, lines 1-12 with the following amended paragraph:

According to one aspect of the present invention, there is provided a communication management system including: a server device; and a mobile terminal device capable of communicating with the server device via a ~~network~~ **mobile telecommunication carrier network**, wherein the mobile terminal device includes: a wireless communication unit which communicates with another terminal device by wireless communication without passing through the ~~network~~ **mobile telecommunication carrier network**; an application which executes a process including the wireless communication by the wireless communication unit; and a control unit which determines whether or not the application is proper, and permits an execution of the wireless communication by the application only when the application is proper.

Docket: CU-4137 PATENT

Please replace the paragraph in the Specification page 3, lines 13-32 with the following amended paragraph:

According to the above communication management system, the mobile terminal device such as the mobile phone can communicate with the server device via the ~~network~~ **mobile telecommunication carrier network**, and can further execute the wireless communication with another terminal device without passing through the ~~network~~ **mobile telecommunication carrier network** by the wireless communication unit included therein. The application for executing the process including the wireless communication is loaded into the mobile terminal device. In executing the application on the mobile terminal, the control unit determines whether or not the application is proper, and permits the execution of the application, i.e., the execution of the wireless communication only when the application is proper. Conversely, when the application is not proper, the control unit inhibits the execution of the application, i.e., the execution of the wireless communication. Thereby, only the proper application is executed on the mobile terminal device, and the execution of the wireless communication is permitted. The execution of the wireless communication by the mobile terminal device based on an illegal application can be limited.

Please replace the paragraph in the Specification page 3, lines 33-34 through page 4, lines 1-11 with the following amended paragraph:

In a manner of the above communication management system, the control unit may include: a communication amount detecting unit which detects a packet

communication amount of the wireless communication by the wireless communication unit; and a status information transmission unit which obtains status information indicating an execution condition of the wireless communication and having identification information of the mobile terminal device, identification information of the application and the packet communication amount, and transmits the status information to the server device via the ~~network~~ **mobile telecommunication carrier network**, and the server device may generate accounting information relating to the wireless communication by the mobile terminal device based on the status information.

Please replace the paragraph in the Specification page 4, lines 20-31 with the following amended paragraph:

According to another aspect of the present invention, there is provided a mobile terminal device capable of communicating with a server device via a ~~network~~ **mobile telecommunication carrier network**, including: a wireless communication unit which communicates with another terminal device by wireless communication without passing through the ~~network~~ **mobile telecommunication carrier network**; an application which executes a process including the wireless communication by the wireless communication unit; and a control unit which determines whether or not the application is proper, and permits an execution of the wireless communication by the application only when the application is proper.

Docket: CU-4137 PATENT

Please replace the paragraph in the Specification page 4, lines 32-34 through page 5, lines 1-16 with the following amended paragraph:

According to the above mobile terminal device, the mobile terminal device such as the mobile phone can communicate with the server device via the ~~network~~ **mobile telecommunication carrier network**, and can further execute wireless communication with another terminal device without passing through the ~~network~~ **mobile telecommunication carrier network** by the wireless communication unit included therein. The application for executing the process including the wireless communication is loaded into the mobile terminal device. In executing the application on the mobile terminal, the control unit determines whether or not the application is proper, and permits the execution of the application, i.e., the execution of the wireless communication only when the application is proper. Conversely, when the application is not proper, the control unit inhibits the execution of the application, i.e., the execution of the wireless communication. Thereby, only the proper application is executed on the mobile terminal device, and the execution of the wireless communication is permitted. The execution of the wireless communication by the mobile terminal device based on the illegal application can be limited.

Please replace the paragraph in the Specification page 5, lines 25-34 through page 6, lines 1-4 with the following amended paragraph:

In another manner of the above mobile terminal device, the control unit may include a status information transition unit which obtains status information

indicating an execution condition of the wireless communication and transmits the status information to the server device via the ~~network~~ **mobile telecommunication carrier network**. Thereby, when the wireless communication is executed by using the mobile terminal device based on the proper application, the execution condition of the wireless communication is reported to the server device as the status information. Therefore, the server device can grasp and manage the execution condition of the wireless communication by using the mobile terminal device. In addition, the mobile telecommunication carrier and the like can charge predetermined fee by using the status information.

Please replace the paragraph in the Specification page 6, lines 5-19 with the following amended paragraph:

In another manner of the above mobile terminal device, the control unit may include a communication amount detecting unit which detects a packet communication amount of the wireless communication by the wireless communication unit, and the status information transmission unit may transmit the status information having identification information of the mobile terminal device, identification information of the application and the packet communication amount. Thereby, **the status information obtained by the control unit can be transmitted to the server device such as a PAN license server. S**since the server device can grasp the identification information of the application necessitating the execution of the wireless communication and the

communication amount by the wireless communication for each mobile terminal device, the management of the execution of the application and the charging of the fee can easily be performed.

Please replace the paragraph in the Specification page 6, lines 20-33 with the following amended paragraph:

According to another aspect of the present invention, there is provided a communication management program executed in a mobile terminal device capable of communicating with a server device via a ~~network~~ **mobile telecommunication carrier network** and communicating with another terminal device by wireless communication without passing through the ~~network~~ **mobile telecommunication carrier network**, making the mobile terminal device function as a control unit which determines whether or not an application loaded into the mobile terminal device for executing a process with the wireless communication is proper, and permits an execution of the wireless communication by the application only when the application is proper. By executing the program on the above mobile terminal device, the above communication management can be executed.

Please replace the paragraph in the Specification page 6, line 34 through page 7, lines 1-9 with the following amended paragraph:

According to another aspect of the present invention, there is provided an mobile terminal device capable of communicating with a server device via a

~~network~~ **mobile telecommunication carrier network**, including: a wireless communication unit which communicates with another terminal device by wireless communication without passing through the ~~network~~ **mobile telecommunication carrier network**; an application which executes a process including wireless communication by the wireless communication unit; and an execution unit which executes the application.

Please replace the paragraph in the Specification page 7, lines 10-22 with the following amended paragraph:

According to the above mobile terminal device, the mobile terminal device such as the mobile phone can communicate with the server device via the ~~network~~ **mobile telecommunication carrier network**, and can further execute wireless communication with another terminal device without passing through the ~~network~~ **mobile telecommunication carrier network** by the wireless communication unit included therein. The mobile terminal device includes the application for executing the process including the wireless communication, and can execute the application by using the wireless communication without passing through the ~~network~~ **mobile telecommunication carrier network**. In addition, the mobile terminal device can obtain the above application via the ~~network~~ **mobile telecommunication carrier network**.

Docket: CU-4137 PATENT

Please replace the paragraph in the Specification page 8, lines 6-20 with the following amended paragraph:

The preferred embodiments of the present invention will now be described below with reference to the attached drawings. In the system of the present invention, a short distance wireless communication function such as Bluetooth (Registered Trademark) is loaded into a mobile communication terminal such as a mobile phone, and the communication function makes it possible that a narrow area wireless communication network **(personal area network)** independent of a network of the mobile telecommunication carrier is constructed between the mobile communication terminals. By obtaining wireless communication information between the users using the mobile communication terminals from their mobile communication terminals, the mobile telecommunication carrier can manage the communication condition in the narrow area wireless communication network **(personal area network)** and can make necessary charge.

Please replace the paragraph in the Specification page 15, lines 27-34 through page 16, lines 1-2 with the following amended paragraph:

As explained above, according to the present invention, the mobile telecommunication carrier can put a certain limit on the communication on the PAN executed without passing through **the mobile telecommunication** ~~its~~ network to manage the execution. At the same time, the mobile telecommunication carrier can obtain the communication information and can use it for the charging and the like. Therefore, the benefit of the mobile

telecommunication carrier is never lost, and the mobile telecommunication carrier network and the wireless communication network can be compatible with each other.